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 600
 cagtggcagt ggatctgggaa cagatttcac tctcaccatc agcagccctac agcctgaaga
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 720
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 743

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<400> 55
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44

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 <211> 758
 <212> DNA

<213> Homo sapiens

<400> 56
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atgcactggg tccggcaagc tccagggaaag ggctctggat gggctcagc tatcacttgg 180
aatagtggtc acatagacta tgccggactct gtggagggcc gattcaccat ctccagagac 240
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tattactgtg cgaaaagtctc gtaccttagc accgcgtctt cccttgacta ttggggccaa 360
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tggtggatca gacatccaga tgacccagtc tccatccctcc ctgtctgcat ctgttagggga 480
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gcaaaaaacca gggaaagccc ctaagctcct gatctatgct gcatccactt tgcaatcagg 600
ggtcccattct cggttcagtg gcagtggatc tgggacagat ttcaactctca ccatcagcag 660
cctacagcct gaagatgttgc caacttattatctgtcaaagg tataaccgtg caccgtatac 720
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<210> 57

<211> 38

<212> DNA

<213> Homo sapiens

<400> 57

gccagagatc tatcgagggt aggtgagtg gcctgggc 38

<210> 58

<211> 18

<212> DNA

<213> Homo sapiens

<400> 58

catgcaggta cccagcag 18

<210> 59

<211> 18

<212> DNA

<213> Homo sapiens

<400> 59

ctgctgggtatc cctgcattg 18

<210> 60

<211> 32

<212> DNA

<213> Homo sapiens

<400> 60

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<210> 61

<211> 354
<212> DNA
<213> Homo sapiens

<400> 61
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cccgaaagac agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccatttgc 180
aaccatcaga gccagcgcac ctgtgcagcc ttctgcaggt cactcagctg ccgcaaggag 240
caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga 300
cagcacccta agcaatgtgc atacttctgt gagaacaagc tcaggagcgg tacc 354

<210> 62
<211> 31
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<400> 62
cggcacggta ccaaggttca ctgggctcct g 31

<210> 63
<211> 366
<212> DNA
<213> Homo sapiens

<400> 63
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ggtacc 366

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<211> 31
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<213> Homo sapiens

<400> 64
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<210> 65
<211> 396
<212> DNA
<213> Homo sapiens

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cccgaaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccattgc	180
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caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga	300
cagcaccccta agcaatgtgc atacttctgt gagaacaagc tcaggagccc agtgaacctt	360
ccaccagagc tcaggagaca gcggagtgga ggtacc	396
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cccgaaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccattgc	180
aaccatcaga gccagcgcac ctgtcagcc ttctgcaggt cactcagctg ccgcaaggag	240
caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga	300
cagcaccccta agcaatgtgc atacttctgt gagaacaagc tcaggagccc agtgaacctt	360
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ggtacc	426
<210> 68	
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<210> 69	
<211> 519	
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<400> 69	
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cccgaaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccattgc	180
aaccatcaga gccagcgcac ctgtcagcc ttctgcaggt cactcagctg ccgcaaggag	240
caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga	300

cagcaccccta agcaatgtgc atacttctgt gagaacaaggc tcaggagccc agtgaacctt 360
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aggtaccaag gattggagca cagaggctca gaagcaagtc cagctctccc ggggctgaag 480
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<210> 70
<211> 41
<212> DNA
<213> Homo sapiens

<400> 70
ggccaggat ccatcgaggg tagggggag caagcgccag g 41

<210> 71
<211> 31
<212> DNA
<213> Homo sapiens

<400> 71
cggtgccgta ccggggccaaa gcagccggaa g 31

<210> 72
<211> 186
<212> DNA
<213> Homo sapiens

<400> 72
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tcctggagcg cggacctgga caagtgcattg gactgcgcgt cttgcaggc gcgaccgcac 120
agcgacttct gcctgggctg cgctgcagca cctcctgccc cttccggct gcttggccc 180
ggtacc 186

<210> 73
<211> 41
<212> DNA
<213> Homo sapiens

<400> 73
ggccaggat ccatcgaggg taggatgagg cgagggcccc g 41

<210> 74
<211> 28
<212> DNA
<213> Homo sapiens

<400> 74
cggtgccgta ccgagcagcc cgggcagg 28

<210> 75
<211> 258
<212> DNA
<213> Homo sapiens

<400> 75

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 tgcgggctcc tgcgcacgcc gcggccgaaa ccggccgggg ccagcagccc tgcgcccagg 180
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 cccgggctgc tcggtacc 258

<210> 76
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 76

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
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Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
 20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
 35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
 50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
 65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
 85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
 100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
 115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
 130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
 145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
 165 170 175

Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
 180 185 190

His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Thr

195

200

205

Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
210 215 220

Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp
225 230 235

<210> 77
<211> 185
<212> PRT
<213> Homo sapiens

<400> 77

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
1 5 10 15

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
165 170 175

Val Cys Thr Ser Thr Ser Pro Thr Arg
180 185

<210> 78

<211> 163
<212> PRT
<213> Homo sapiens

<400> 78

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
1 5 10 15

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
145 150 155 160

Gln Ile Cys

<210> 79
<211> 142
<212> PRT
<213> Homo sapiens

<400> 79

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
1 5 10 15

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys
130 135 140

<210> 80
<211> 157
<212> PRT
<213> Homo sapiens

<400> 80

Val Arg Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val
1 5 10 15

Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg
20 25 30

Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu
35 40 45

Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe
50 55 60

Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile
65 70 75 80

Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala
85 90 95

Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys
100 105 110

Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys
115 120 125

Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe
130 135 140

Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
145 150 155

<210> 81
<211> 51
<212> PRT
<213> Homo sapiens

<400> 81

Glu Pro Pro Thr Gln Lys Pro Lys Lys Leu Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu
50

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<211> 39
<212> DNA
<213> Artificial

<220>
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<210> 83
<211> 33
<212> DNA
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<220>
<223> oligonucleotide primer

<400> 83
caccacggta ccgatctggc gggcctgca aat 33

<210> 84
<211> 738
<212> DNA
<213> Artificial

<220>
<223> AD1D4-I162-tripB

<400> 84
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cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcggccggc 120
caacatgcaa aagtcttctg taccaagacc tcggacaccg tgggtgactc ctgtgaggac 180

agcacatata cccagctctg	gaactgggtt	cccagtgct	tgagctgtgg	ctcccgctgt	240
agctctgacc	aggtaaaac	tcaagcctgc	actcggaaac	agaaccgcac	300
aggccggct	ggtactgcgc	gctgagcaag	caggaggggt	gccggctgtg	360
cgcaagtgcc	gcccggctt	cggcgtggcc	agaccaggaa	ctgaaacatc	420
tgcaagccct	gtgccccggg	gacgttctcc	aacacgactt	catccacgga	480
ccccaccaga	tccgtaccga	gccaccaacc	cagaagccca	agaagattgt	540
aaagatgtt	tgaacacaaa	gatgttttag	gagctcaaga	gccgtctgga	600
caggaggtgg	ccctgctgaa	ggagcagcag	gccctgcaga	cggtctccct	660
gaacaaaaac	tcatctcaga	agaggatctg	aatagcgccg	tcgaccatca	720
cattgaaagc	tgaattcc				738

<210> 85					
<211> 51					
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<210> 86					
<211> 810					
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<213> Artificial					
<220>					
<223> AD1D4-GSS-tripB					
<400> 86					
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caacatgcaa	aagtcttctg	taccaagacc	tcggacaccg	tgtgtgactc	180
agcacatata	cccagctctg	gaactgggtt	cccagtgct	tgagctgtgg	240
agctctgacc	aggtaaaac	tcaagcctgc	actcggaaac	agaaccgcac	300
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cgcaagtgcc	gcccggctt	cggcgtggcc	agaccaggaa	ctgaaacatc	420
tgcaagccct	gtgccccggg	gacgttctcc	aacacgactt	catccacgga	480
ccccaccaga	tctgttaacgt	ggtggccatc	cctggaaatg	caagcatgga	540
acgtccacgt	cctccgggttc	ctccggtacc	gagccaccaa	cccagaagcc	600
gtaaatgcca	agaaagatgt	tgtgaacaca	aagatgtttg	aggagctcaa	660
gacaccctgg	cccaggaggt	ggccctgctg	aaggagcagc	aggccctgca	720

ctgaagggtc tagaacaaaa actcatctca gaagaggatc tgaatagcgc cgtcgaccat 780
 catcatcatc atcattgaaa gctgaattcc 810

<210> 87
 <211> 39
 <212> DNA
 <213> Artificial

<220>
 <223> oligonucleotide primer

<400> 87
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<210> 88
 <211> 957
 <212> DNA
 <213> Artificial

<220>
 <223> AD1D4-D235-tripB

<400> 88
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 cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcggccggc 120
 caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180
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<210> 89
 <211> 711
 <212> DNA
 <213> Artificial

<220>
 <223> AD1D4-I162-I10-TripB

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caacatgcaa aagtcttctg taccatggacc tcggacaccg tgggtgactc ctgtgaggac 180
agcacatata cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240
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ccccaccaga tcggtaccat tgtaaatgcc aagaaagatg ttgtgaacac aaagatgttt 540
gaggagctca agagccgtct ggacaccctg gcccaggagg tggccctgct gaaggagcag 600
caggccctgc agacggtctc cctgaagggtt ctggaaacaaa aactcatctc agaagaggat 660
ctgaatagcg ccgtcgacca tcatcatcat catcattgaa agctgaattc c 711

<210> 90
<211> 711
<212> DNA
<213> Artificial

<220>
<223> AD1D4-GSS-I10-tripB

<400> 90
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caacatgcaa aagtcttctg taccatggacc tcggacaccg tgggtgactc ctgtgaggac 180
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tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttcagg 480
ccccaccaga tcggtaccat tgtaaatgcc aagaaagatg ttgtgaacac aaagatgttt 540
gaggagctca agagccgtct ggacaccctg gcccaggagg tggccctgct gaaggagcag 600
caggccctgc agacggtctc cctgaagggtt ctggaaacaaa aactcatctc agaagaggat 660
ctgaatagcg ccgtcgacca tcatcatcat catcattgaa agctgaattc c 711

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<211> 930
<212> DNA
<213> Artificial

<220>
<223> AD1D4-D235-I10-tripB

<400> 91
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cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcgccggc 120
caacatgcaa aagtcttctg tccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180
agcacataca cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240
agctctgacc aggtggaaac tcaaggctgc actcggaaac agaaccgcac ctgcacctgc 300
aggcccggtt ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgccggctg 360
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ccccaccaga tctgtAACGT ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540
acgtccacgt cccccacccg gagtatggcc ccagggcag tacacttacc ccagccagtg 600
tccacacgat cccaaacacac gcagccaact ccagaaccca gcactgctcc aagcacctcc 660
ttcctgctcc caatgggccc cagccccca gctgaaggga gcaactggcga cggtaccatt 720
gtaaatgcca agaaagatgt tgtgaacaca aagatgtttg aggagctcaa gagccgtctg 780
gacaccctgg cccaggaggt ggccctgctg aaggagcagc aggccctgca gacgtctcc 840
ctgaagggtc tagaacaaaa actcatctca gaagaggatc tgaatagcgc cgtcgaccat 900
catcatcatc atcattgaaa gctgaattcc 930

<210> 92
<211> 31
<212> DNA
<213> Artificial

<220>
<223> pKpnI-V17

<400> 92
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<210> 93
<211> 35
<212> DNA
<213> Artificial

<220>
<223> pBAD6H

<400> 93
ggctcggaat tcaatgatga tcatgtatgtat ggtcg 35

<210> 94
<211> 762
<212> DNA
<213> Artificial

<220>
<223> AD1D4-GSS-V17-tripB

<400> 94
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cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcgcccggc 120
caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180
agcacataca cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240
agctctgacc aggtggaaac tcaagcctgc actcggaaac agaaccgcat ctgcacctgc 300
aggcccgct ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgccggcgtg 360
cgcaagtgcc gcccggcgtt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420
tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480
ccccaccaga tctgtAACGT ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540
acgtccacgt cctccgggttc ctccggtaacc gttgtgaaca caaagatgtt tgaggagctc 600
aagagccgtc tggacaccct ggcccaggag gtggccctgc tgaaggagca gcaggccctg 660
cagacggtct ccctgaaggg tctagaacaa aaactcatct cagaagagga tctgaatagc 720
gccgtcgacc atcatcatca tcatcattga aagctgaatt cc 762

<210> 95
<211> 909
<212> DNA
<213> Artificial

<220>
<223> AD1D4-D235-V17-tripB

<400> 95
atggatcca tggcccaggt ggcatttaca ccctacgccc cggagcccg gaggcacatgc 60
cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcgcccggc 120
caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180
agcacataca cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240
agctctgacc aggtggaaac tcaagcctgc actcggaaac agaaccgcat ctgcacctgc 300
aggcccgct ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgccggcgtg 360
cgcaagtgcc gcccggcgtt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420
tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480
ccccaccaga tctgtAACGT ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540
acgtccacgt ccccccacccg gagtatgcc ccagggcag tacacttacc ccagccagtg 600
tccacacgat cccaaacacac gcagccaact ccagaaccca gcactgctcc aagcacctcc 660
ttcctgctcc caatggccc cagccccca gctgaaggga gcactggcga cggtaccgtt 720
gtgaacacaa agatgtttga ggagctcaag agccgtctgg acaccctggc ccaggaggtg 780
gccctgtga aggagcagca ggccctgcag acggctccc tgaagggtct agaacaaaaa 840
ctcatctcag aagaggatct gaatagcgcc gtcgaccatc atcatcatca tcattgaaag 900

ctgaattcc

909

<210> 96
<211> 181
<212> PRT
<213> Homo sapiens

<400> 96

Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe
50 55 60

Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg
65 70 75 80

Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu
85 90 95

Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu
100 105 110

Gly Leu Asn Asp Met Ala Ala Glu Gly Thr Trp Val Asp Met Thr Gly
115 120 125

Ala Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro
130 135 140

Asp Gly Gly Lys Thr Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn
145 150 155 160

Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys
165 170 175

Gln Phe Gly Ile Val
180

<210> 97
<211> 137
<212> PRT
<213> Homo sapiens

<400> 97

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Asp Met Ala Ala Glu Gly Thr Trp Val
65 70 75 80

Asp Met Thr Gly Ala Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Gly Gly Lys Thr Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 98
<211> 102
<212> DNA
<213> Artificial

<220>
<223> TN-lib3-tprev

<220>
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<222> (22)..(23)
<223> randomised

<220>
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<222> (25)..(26)
<223> randomised

<220>
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<222> (28)..(29)
<223> randomised

<220>
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<222> (31)..(32)
<223> randomised

<220>

<221> misc_feature
<222> (34)..(35)
<223> randomised

<220>
<221> misc_feature
<222> (37)..(38)
<223> randomised

<220>
<221> misc_feature
<222> (40)..(41)
<223> randomised

<400> 98
gagatctggc tgggcctcaa cnnsnnsnns nnsnnsnnsn nstgggtgga catgaccggt 60
acccgcacatcg cctacaagaa ctgggagact gagatcacccg cg 102

<210> 99
<211> 94
<212> DNA
<213> Artificial

<220>
<223> TN-lib2-tprev

<220>
<221> misc_feature
<222> (17)..(17)
<223> randomised

<220>
<221> misc_feature
<222> (18)..(18)
<223> randomised

<220>
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<222> (20)..(21)
<223> randomised

<220>
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<222> (23)..(24)
<223> randomised

<220>
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<222> (29)..(29)
<223> randomised

<220>
<221> misc_feature
<222> (30)..(30)
<223> randomised

<220>
<221> misc_feature
<222> (32)..(33)
<223> randomised

<400> 99
gctgggcctc aacgacnnsn nsnnsgagnn snnstgggtg gacatgaccg gtacccgcat 60
cgccctacaag aactgggaga ctgagatcac cgcg 94

<210> 100
<211> 108
<212> DNA
<213> Artificial

<220>
<223> TN-lib3-tpfo

<220>
<221> misc_feature
<222> (63)..(64)
<223> randomised

<220>
<221> misc_feature
<222> (66)..(67)
<223> randomised

<220>
<221> misc_feature
<222> (69)..(70)
<223> randomised

<220>
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<222> (72)..(73)
<223> randomised

<220>
<221> misc_feature
<222> (75)..(76)
<223> randomised

<220>
<221> misc_feature
<222> (78)..(79)
<223> randomised

<400> 100
cgccggcagcg cttgtcgaac cacttgccgt tggccgcgcc tgacaggacc ggcgcgttct 60
csnnnsnnnnn snnsnnnnna tcgggttgcg cggtgatctc agtctccc 108

<210> 101
<211> 102
<212> DNA
<213> Artificial

<220>
<223> TN-lib2-tpfo

<220>
<221> misc_feature
<222> (63)..(64)
<223> randomised

<220>
<221> misc_feature
<222> (66)..(67)
<223> randomised

<220>
<221> misc_feature
<222> (69)..(70)
<223> randomised

<220>
<221> misc_feature
<222> (72)..(73)
<223> randomised

<400> 101
cgcggcagcg cttgtcgaac cacttgcgt tggccgcgcc tgacaggacc ggcgcaggttct 60
csnnnsnnnnn snnatcgggt tgcgcggtga tctcagtctc cc 102

<210> 102
<211> 137
<212> PRT
<213> Artificial

<220>
<223> TN3-2

<400> 102

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Met
65 70 75 80

Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Pro Arg His Thr Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 103
<211> 137
<212> PRT
<213> Artificial

<220>
<223> TN3-2-B

<400> 103

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Met
65 70 75 80

Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Pro Thr Asn Asn Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 104
<211> 137
<212> PRT
<213> Artificial

<220>
<223> TN3-2-C

<400> 104

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Val
65 70 75 80

Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Pro Thr Asn Arg Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 105
<211> 137
<212> PRT
<213> Artificial

<220>
<223> TN3-2-D

<400> 105

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Ile
65 70 75 80

Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Pro Asn Asn Arg Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 106

<211> 181

<212> PRT

<213> Artificial

<220>

<223> TN-2-B

<400> 106

Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe
50 55 60

Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg
65 70 75 80

Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu
85 90 95

Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu
100 105 110

Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Met Asp Met Thr Gly
115 120 125

Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro
130 135 140

Asp Pro Thr Asn Asn Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn
145 150 155 160

Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys

165

170

175

Gln Phe Gly Ile Val
180

<210> 107
<211> 181
<212> PRT
<213> Artificial

<220>
<223> TN-2-D

<400> 107

Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe
50 55 60

Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg
65 70 75 80

Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu
85 90 95

Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu
100 105 110

Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Ile Asp Met Thr Gly
115 120 125

Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro
130 135 140

Asp Pro Asn Asn Arg Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn
145 150 155 160

Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys
165 170 175

Gln Phe Gly Ile Val
180

<210> 108
<211> 181

<212> PRT
<213> Artificial

<220>
<223> TN-2-C

<400> 108

Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe
50 55 60

Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg
65 70 75 80

Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu
85 90 95

Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu
100 105 110

Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Val Asp Met Thr Gly
115 120 125

Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro
130 135 140

Asp Pro Thr Asn Arg Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn
145 150 155 160

Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys
165 170 175

Gln Phe Gly Ile Val
180

<210> 109
<211> 256
<212> PRT
<213> Artificial

<220>
<223> AD1D4-GSS-I10

<400> 109

Met Gly Ser Met Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro

1

5

10

15

Gly Ser Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met
20 25 30

Cys Cys Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr
35 40 45

Lys Thr Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr
50 55 60

Gln Leu Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys
65 70 75 80

Ser Ser Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg
85 90 95

Ile Cys Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu
100 105 110

Gly Cys Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly
115 120 125

Val Ala Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys
130 135 140

Ala Pro Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg
145 150 155 160

Pro His Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met
165 170 175

Asp Ala Val Cys Thr Ser Thr Ser Ser Gly Ser Ser Gly Thr Ile Val
180 185 190

Asn Ala Lys Lys Asp Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys
195 200 205

Ser Arg Leu Asp Thr Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln
210 215 220

Gln Ala Leu Gln Thr Val Ser Leu Lys Gly Leu Glu Gln Lys Leu Ile
225 230 235 240

Ser Glu Glu Asp Leu Asn Ser Ala Val Asp His His His His His
245 250 255